

1/50

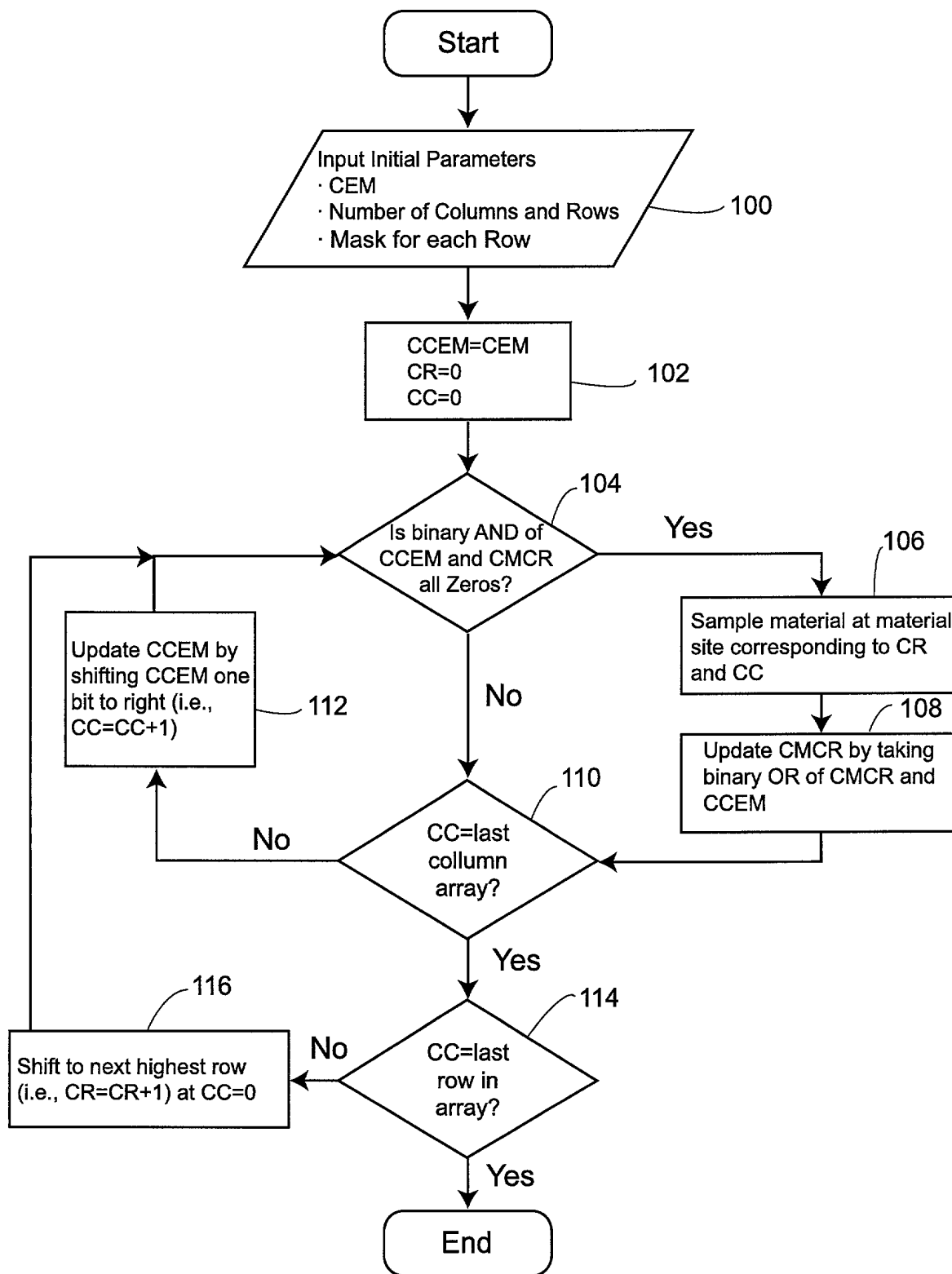


Fig. 1

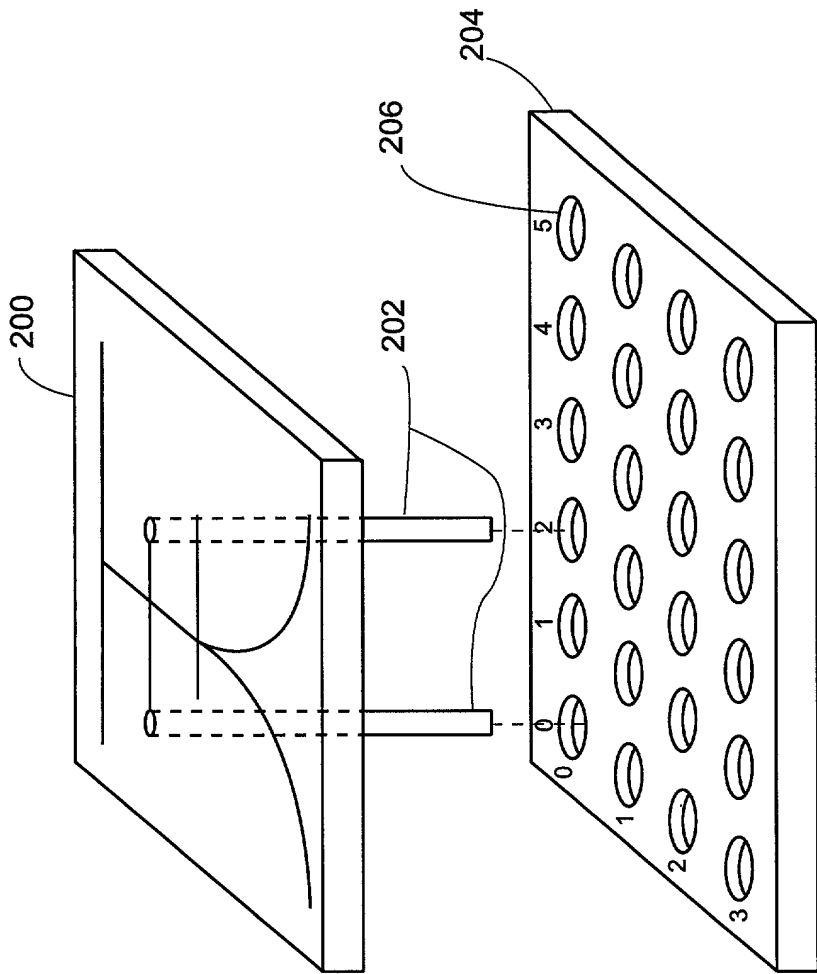


Fig. 2

	0	1	2	3	4	5
0	0	0	0	0	1	1
1	1	0	0	0	0	1
2	1	0	0	0	0	1
3	1	1	0	0	0	0

A

	0	1	2	3	4	5
0	1	1	1	1	1	1
1	1	0	0	0	0	1
2	1	0	0	0	0	1
3	1	1	0	0	0	0

B

	0	1	2	3	4	5
0	1	1	1	1	1	1
1	1	1	1	1	1	1
2	1	0	0	0	0	1
3	1	1	0	0	0	0

C

	0	1	2	3	4	5
0	1	1	1	1	1	1
1	1	1	1	1	1	1
2	1	1	1	1	1	1
3	1	1	0	0	0	0

D

	0	1	2	3	4	5
0	1	1	1	1	1	1
1	1	1	1	1	1	1
2	1	1	1	1	1	1
3	1	1	1	1	1	1

E

Fig. 3

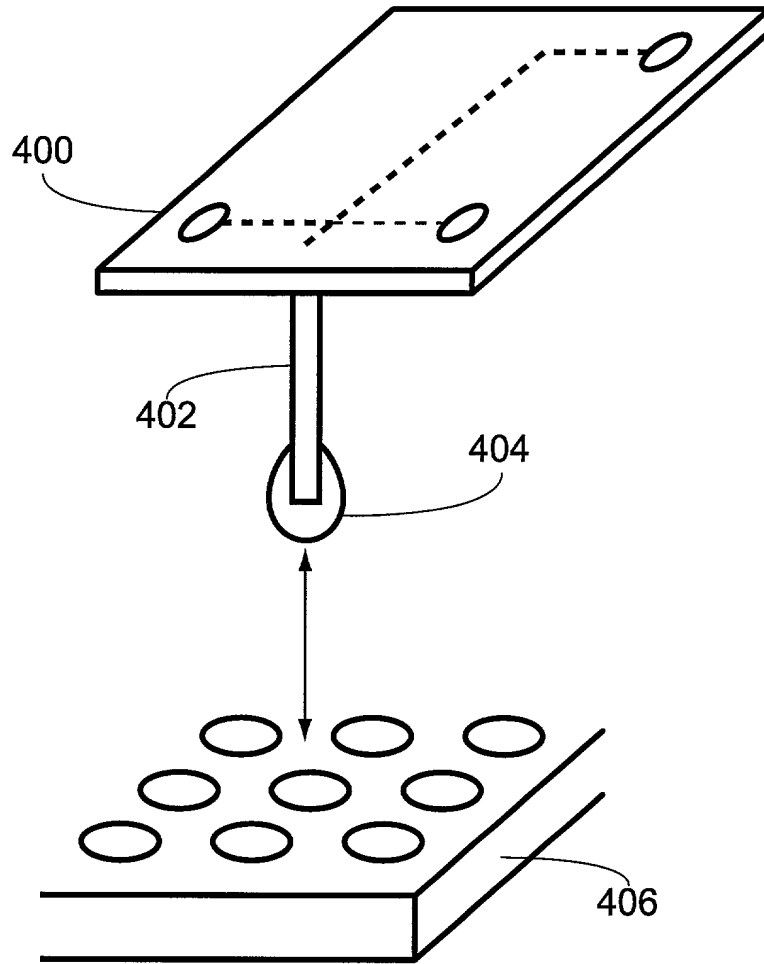


Fig. 4

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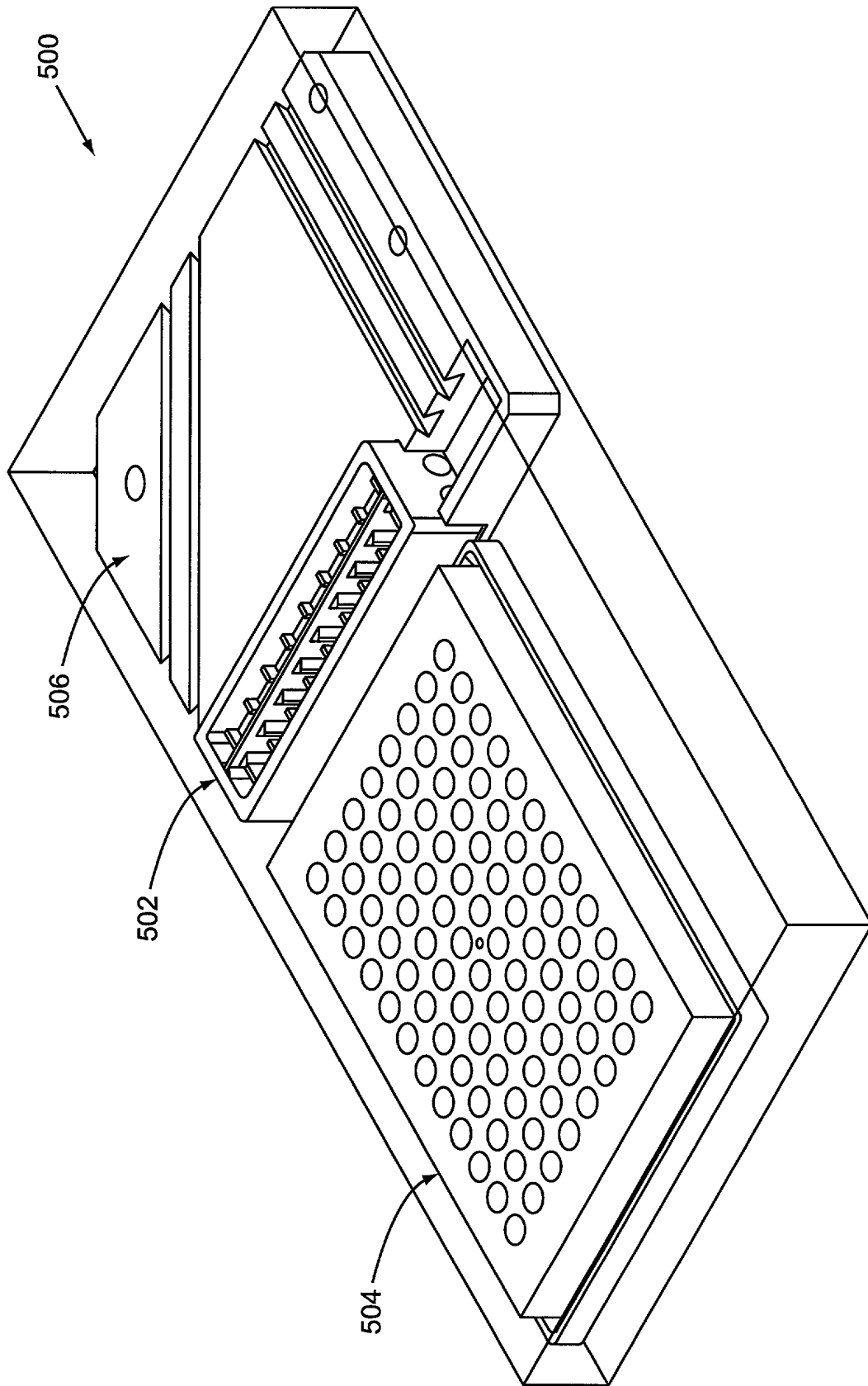


Fig. 5

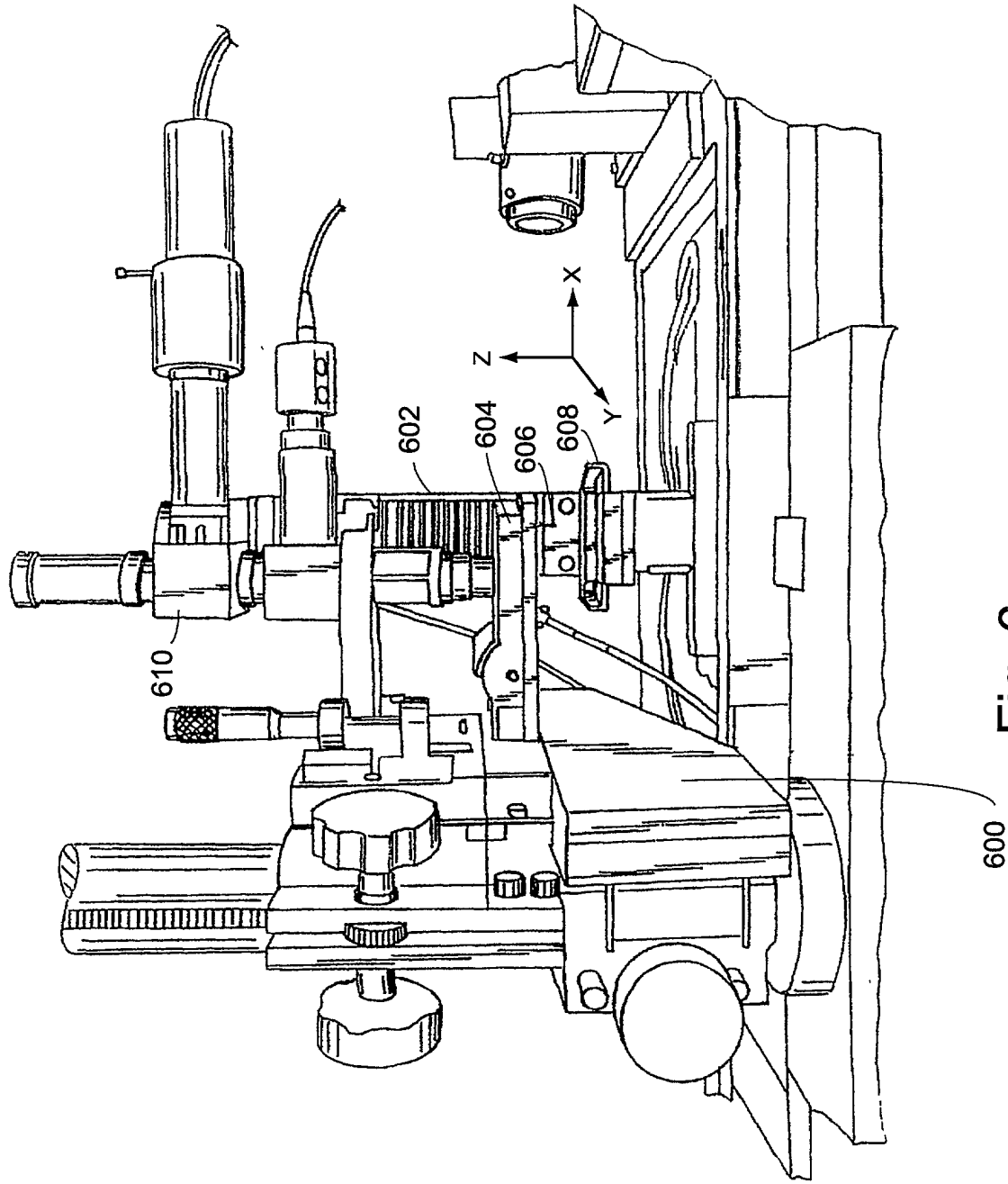


Fig. 6

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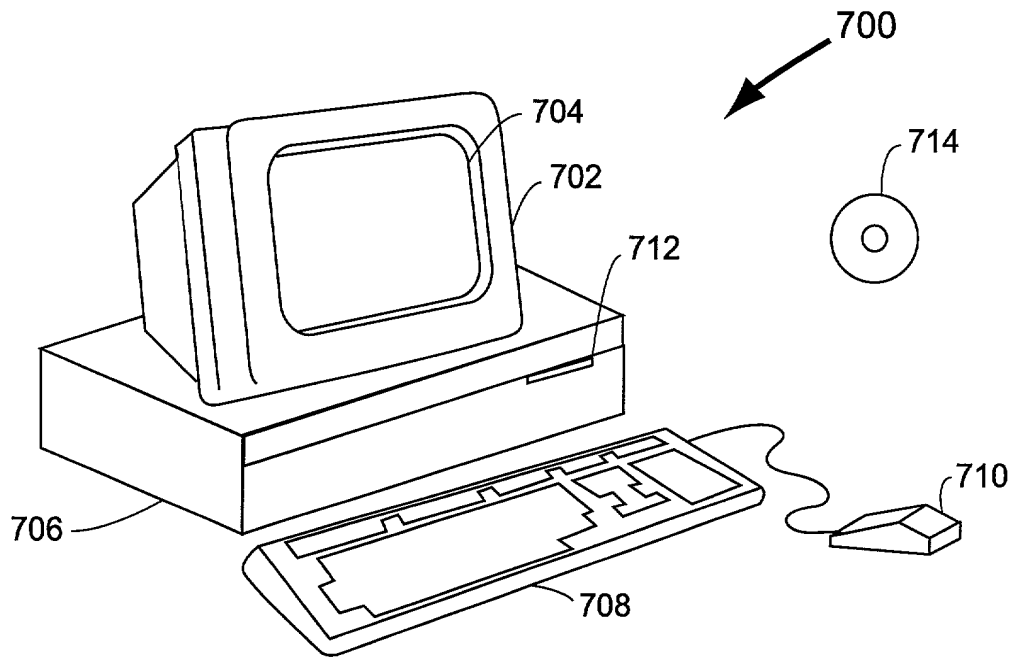


Fig. 7

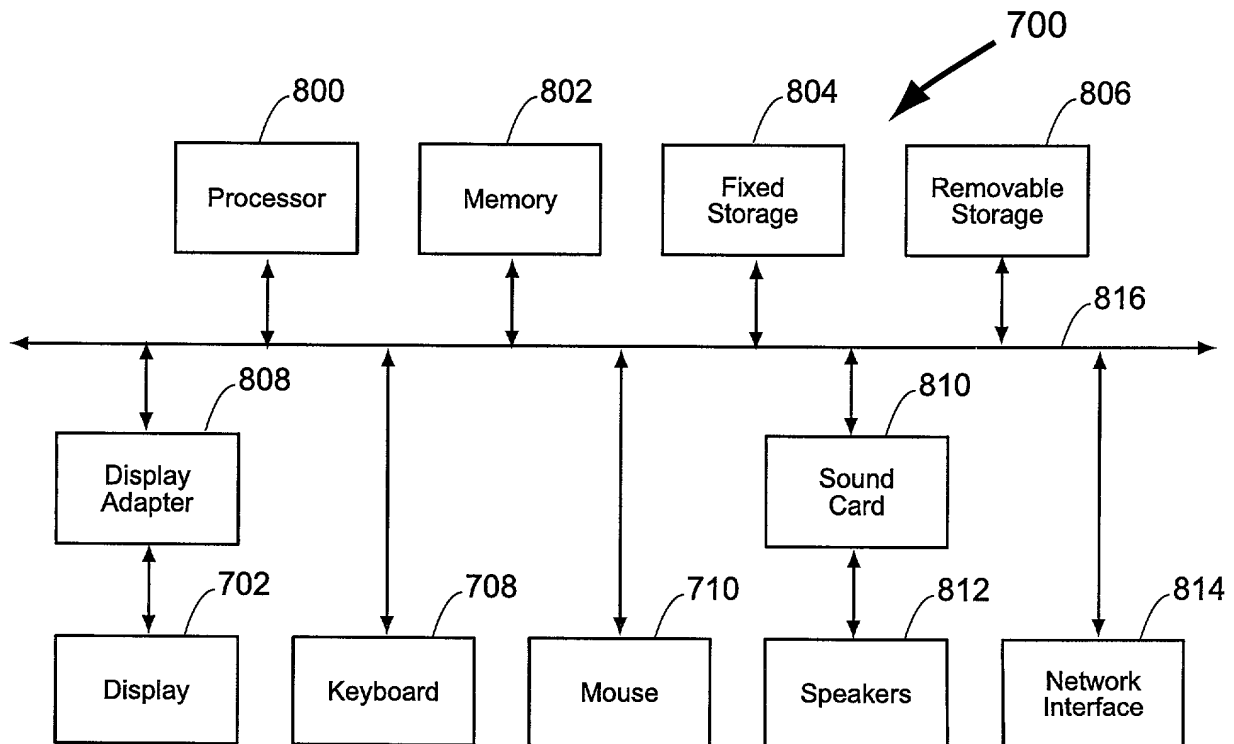


Fig. 8

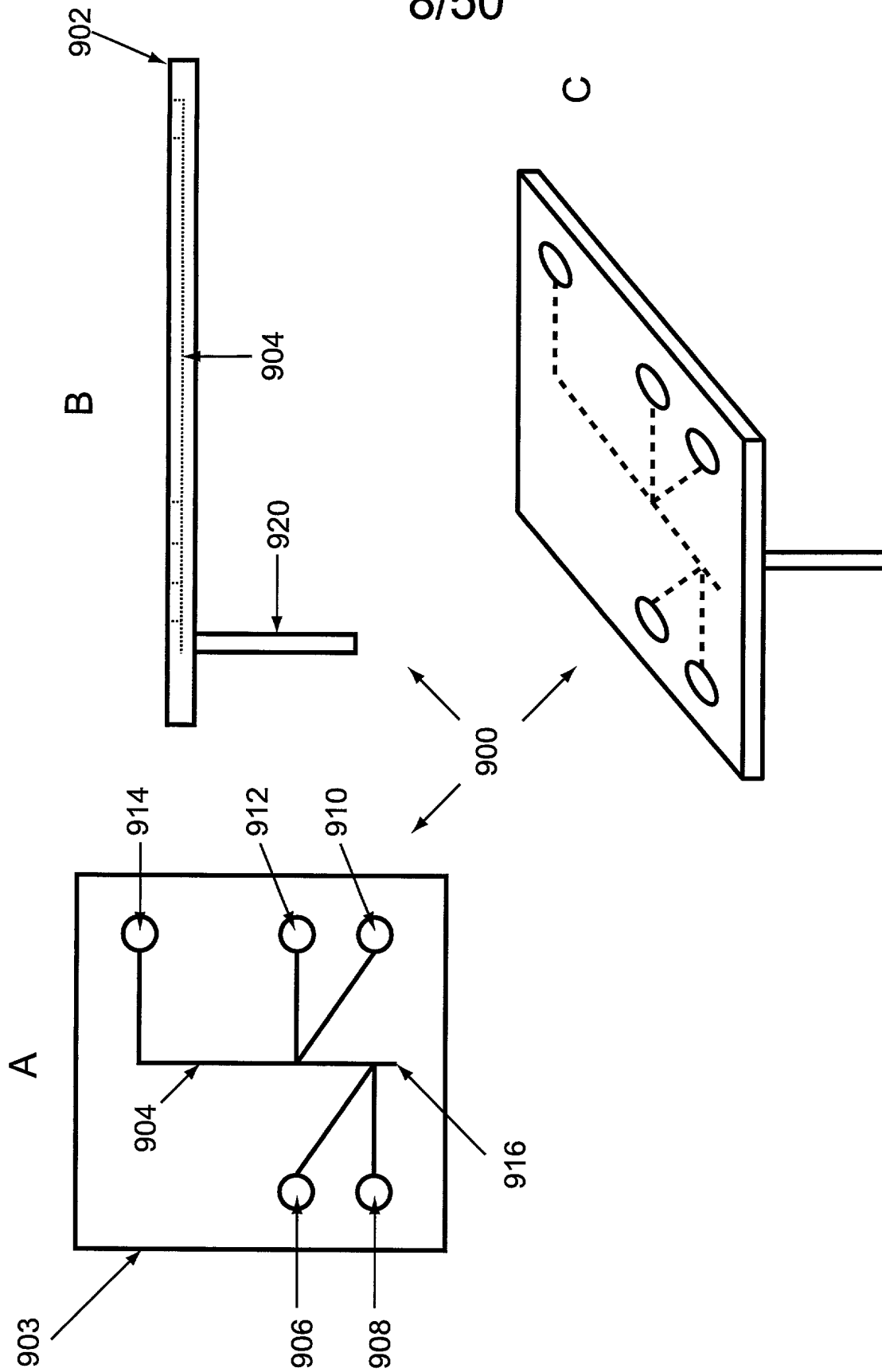


Fig. 9

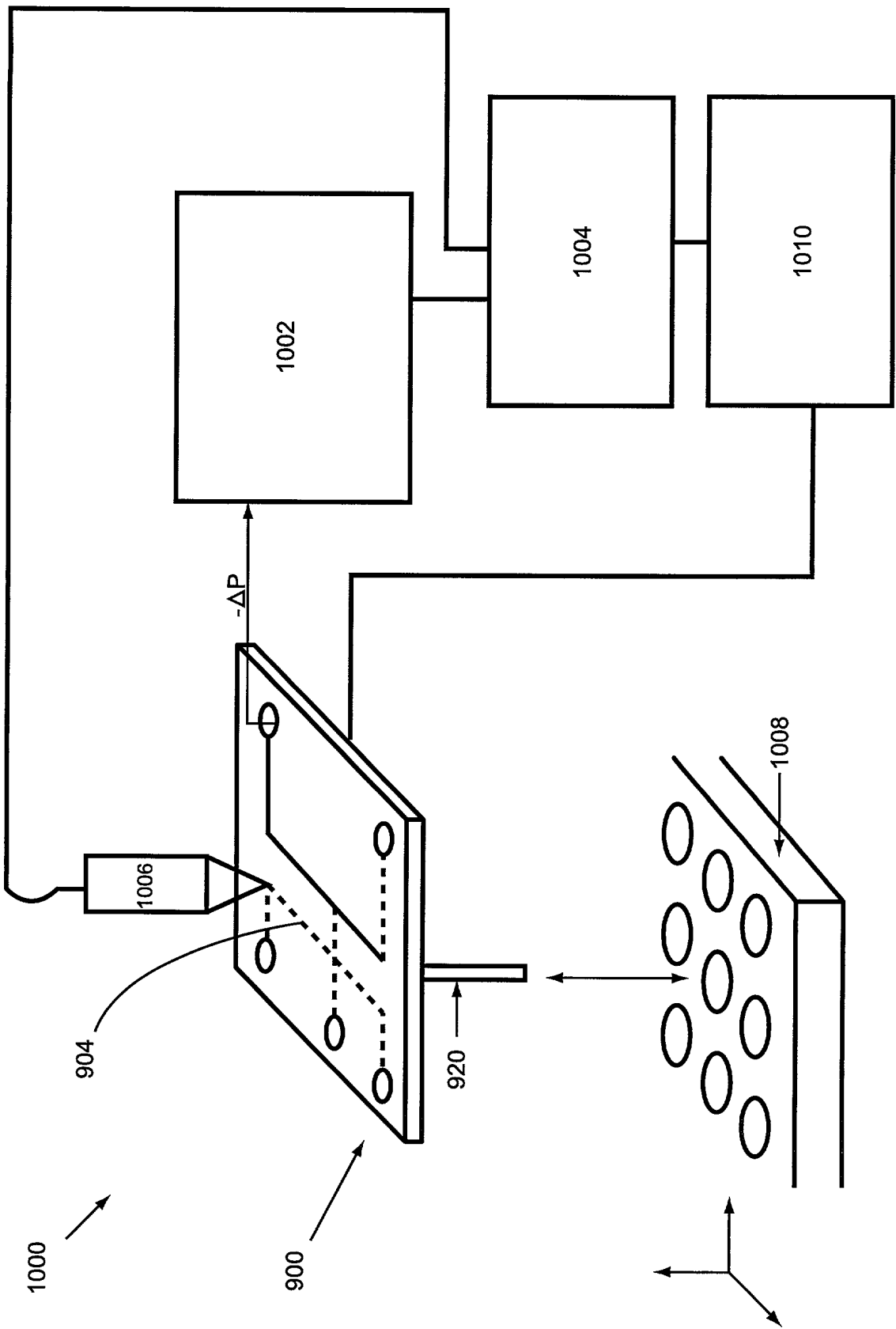


Fig. 10

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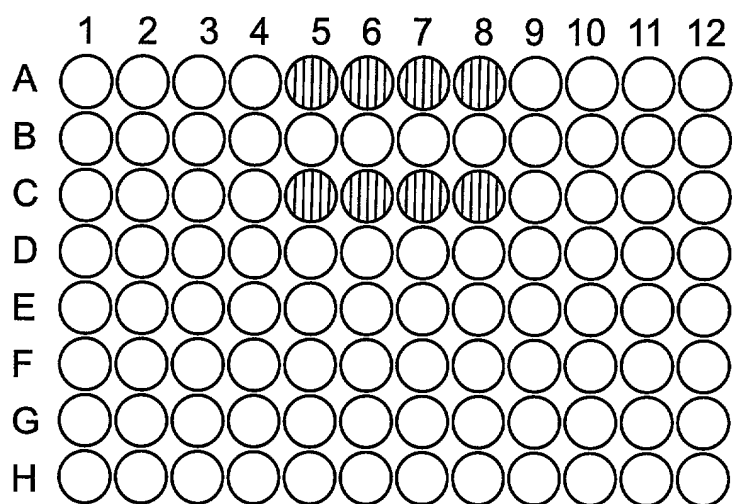


Fig. 11A

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- Dwell Pattern -

Name:

Row A: 5,6

Fig. 11B

12/50

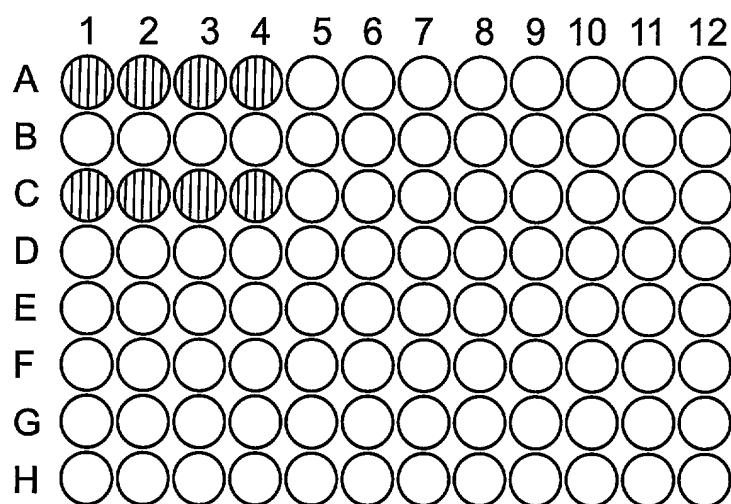


Fig. 11C

Dwell Pattern	
Name:	FewTrough.DP4_96
Row A: 1,2	

Fig. 11D

14/50

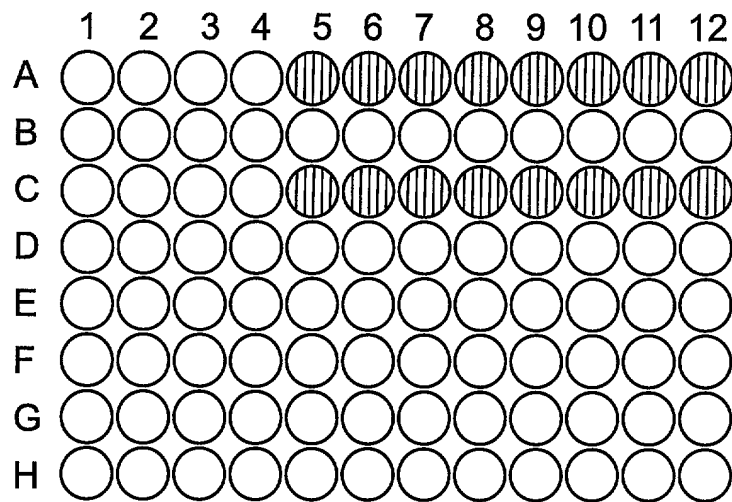


Fig. 11E

Dwell Pattern

Name: SeveralNoTrough.DP4_96

Row A: 5,6,9,10

Fig. 11F

16/50

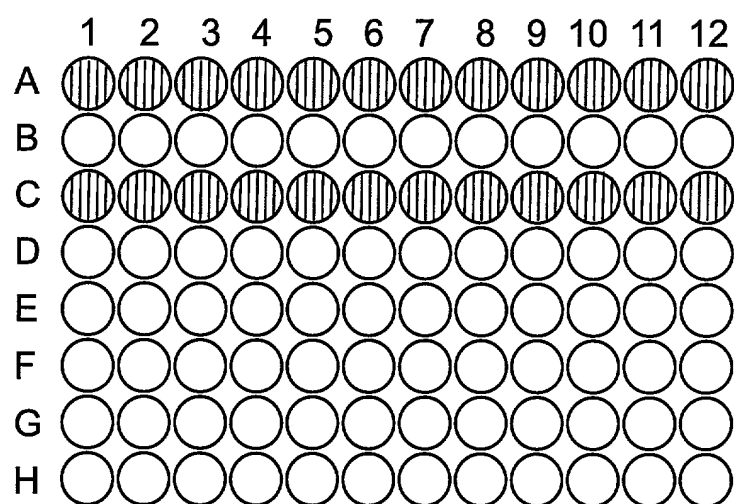


Fig. 11G

Dwell Pattern	
Name:	SeveralTrough.DP4_96
Row A: 1,2,5,6,9,10	

Fig. 11H

18/50

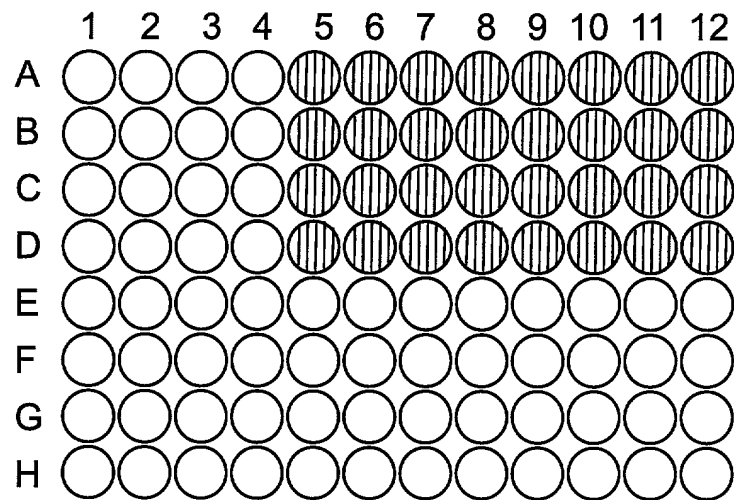


Fig. 11I

Dwell Pattern	
Name:	HalfNoTrough.DP4_96
Row A:	5,6,9,10
Row B:	5,6,9,10

Fig. 11J

20/50

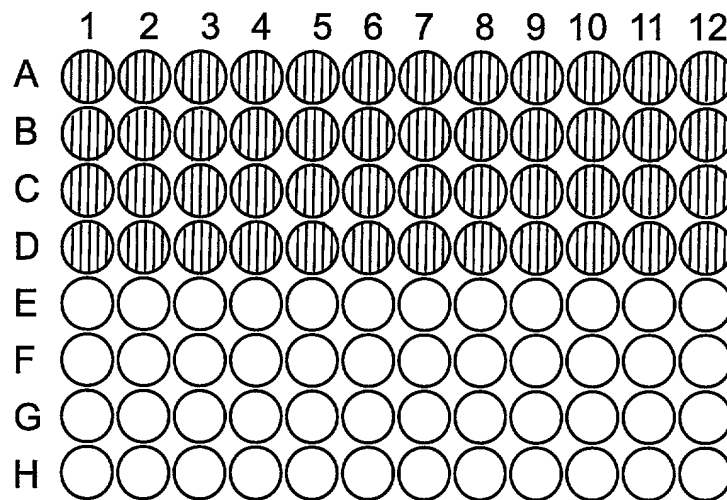


Fig. 11K

1002164-1001

- Dwell Pattern -	
Name:	HalfTrough.DP4_96
Row A:	1,2,5,6,9,10
Row B:	1,2,5,6,9,10

Fig. 11L

10021694-3001

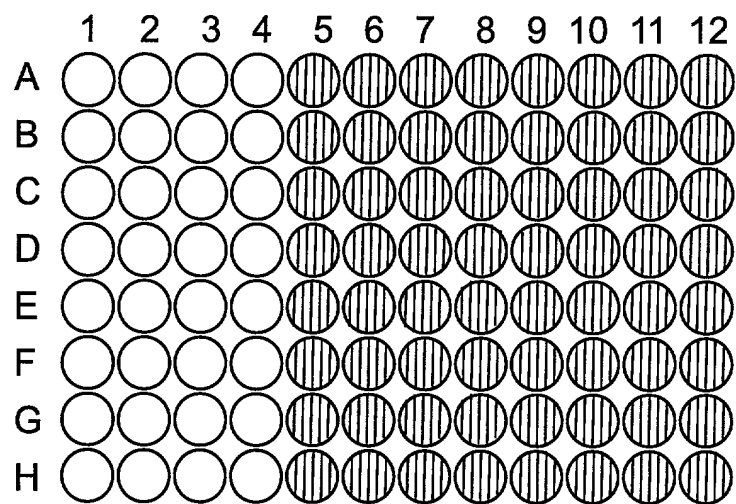


Fig. 11M

Dwell Pattern

Name: FullNoTrough.DP4_96

Row A: 5,6,9,10
Row B: 5,6,9,10
Row E: 5,6,9,10
Row F: 5,6,9,10

Fig. 11N

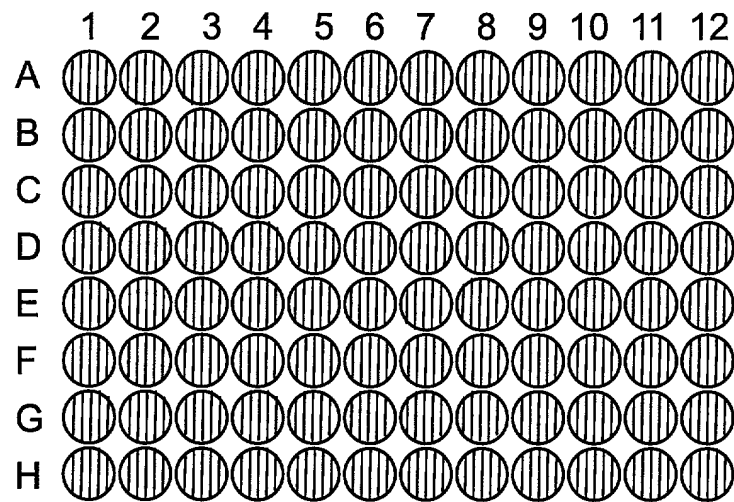


Fig. 11O

Dwell Pattern

Name: FullTrough.DP4_96

Row A: 1,2,5,6,9,10
Row B: 1,2,5,6,9,10
Row E: 1,2,5,6,9,10
Row F: 1,2,5,6,9,10

Fig. 11P

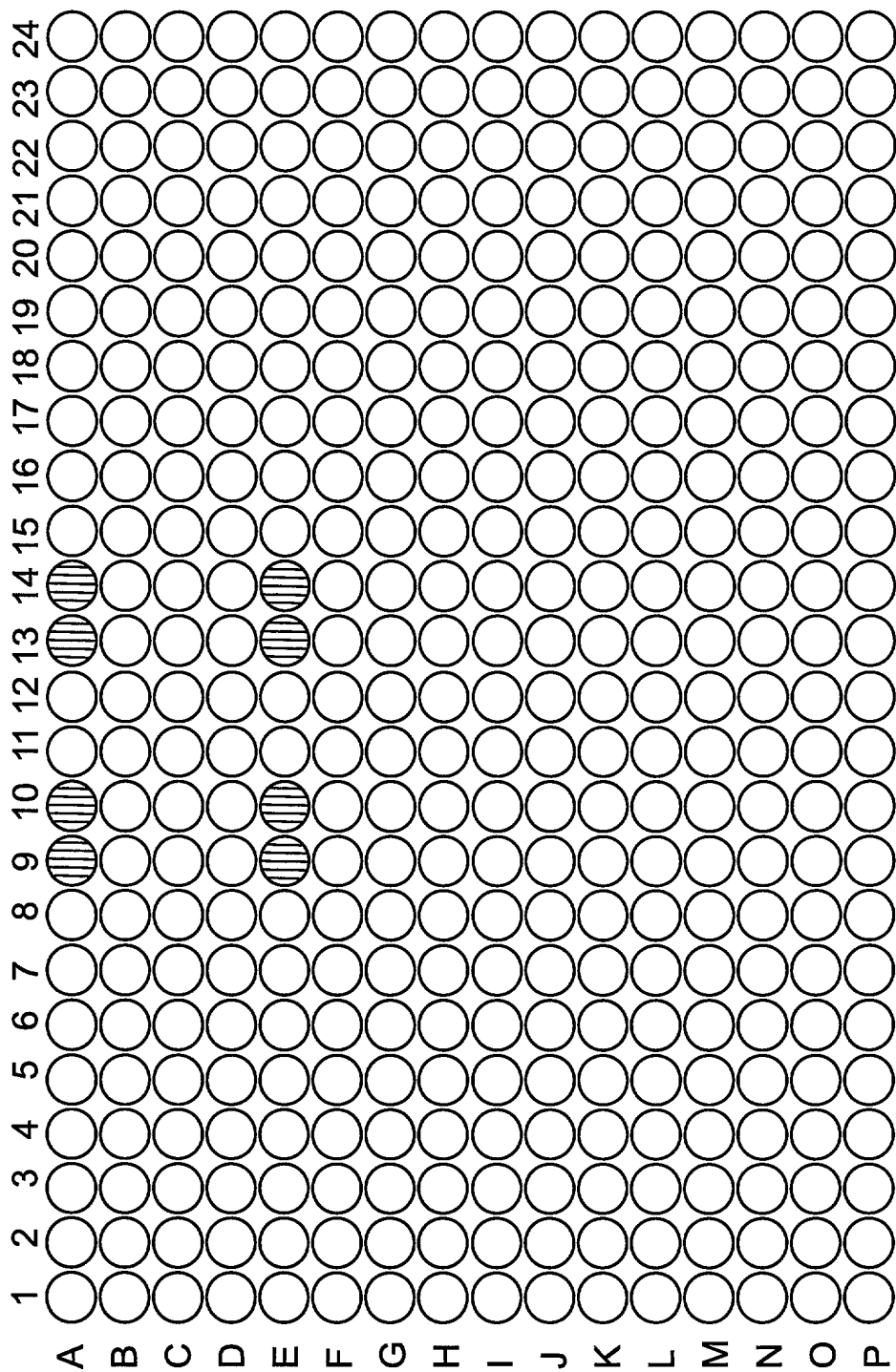


Fig. 12A

Sipper Options [X]

General Directories **Sample Wells** Advanced

Dwell Pattern

Name:

Fig. 12B

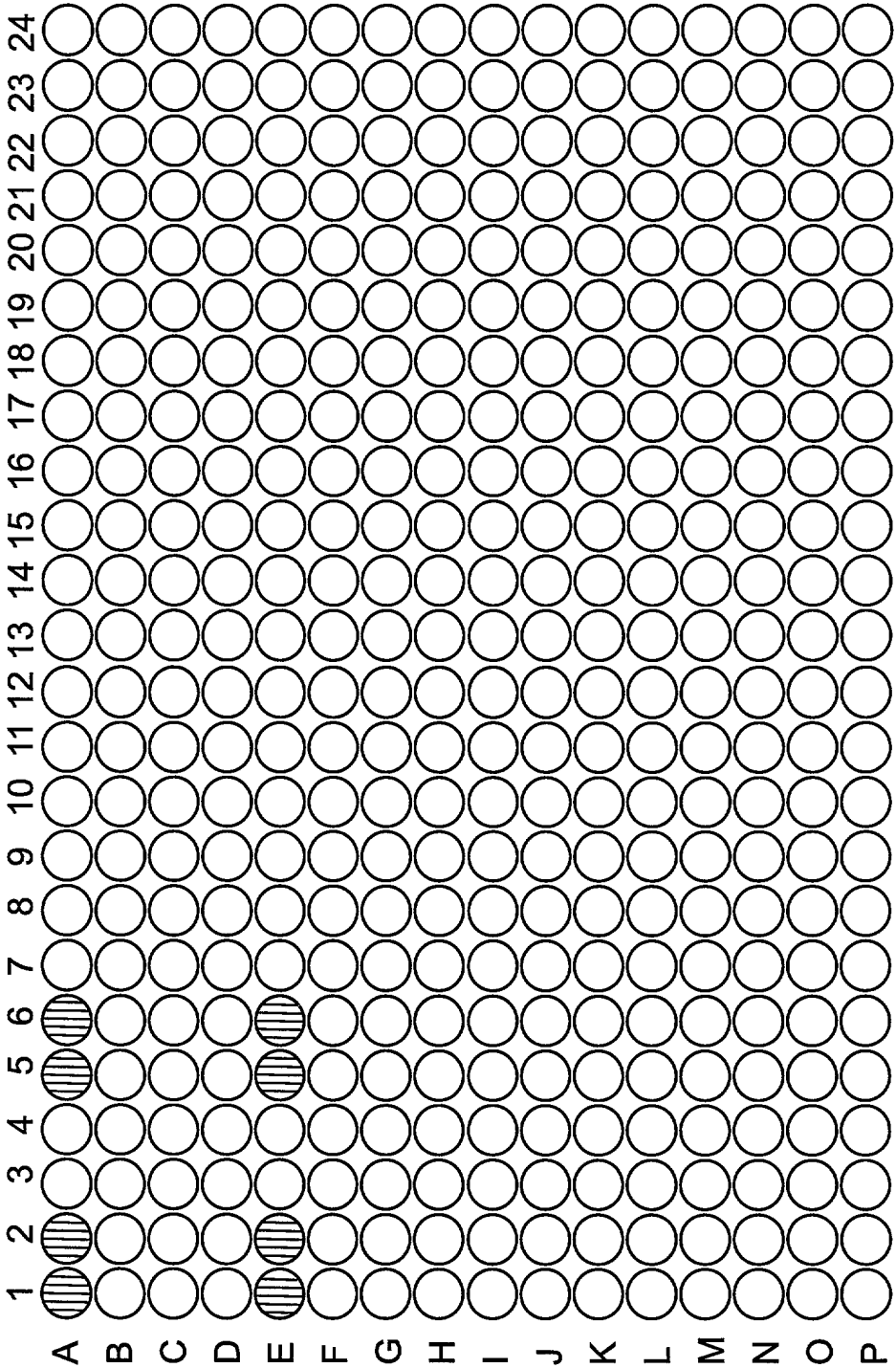


Fig. 12C

Sipper Options [X]

General Directories **Sample Wells** Advanced

Dwell Pattern

Name:

Fig. 12D

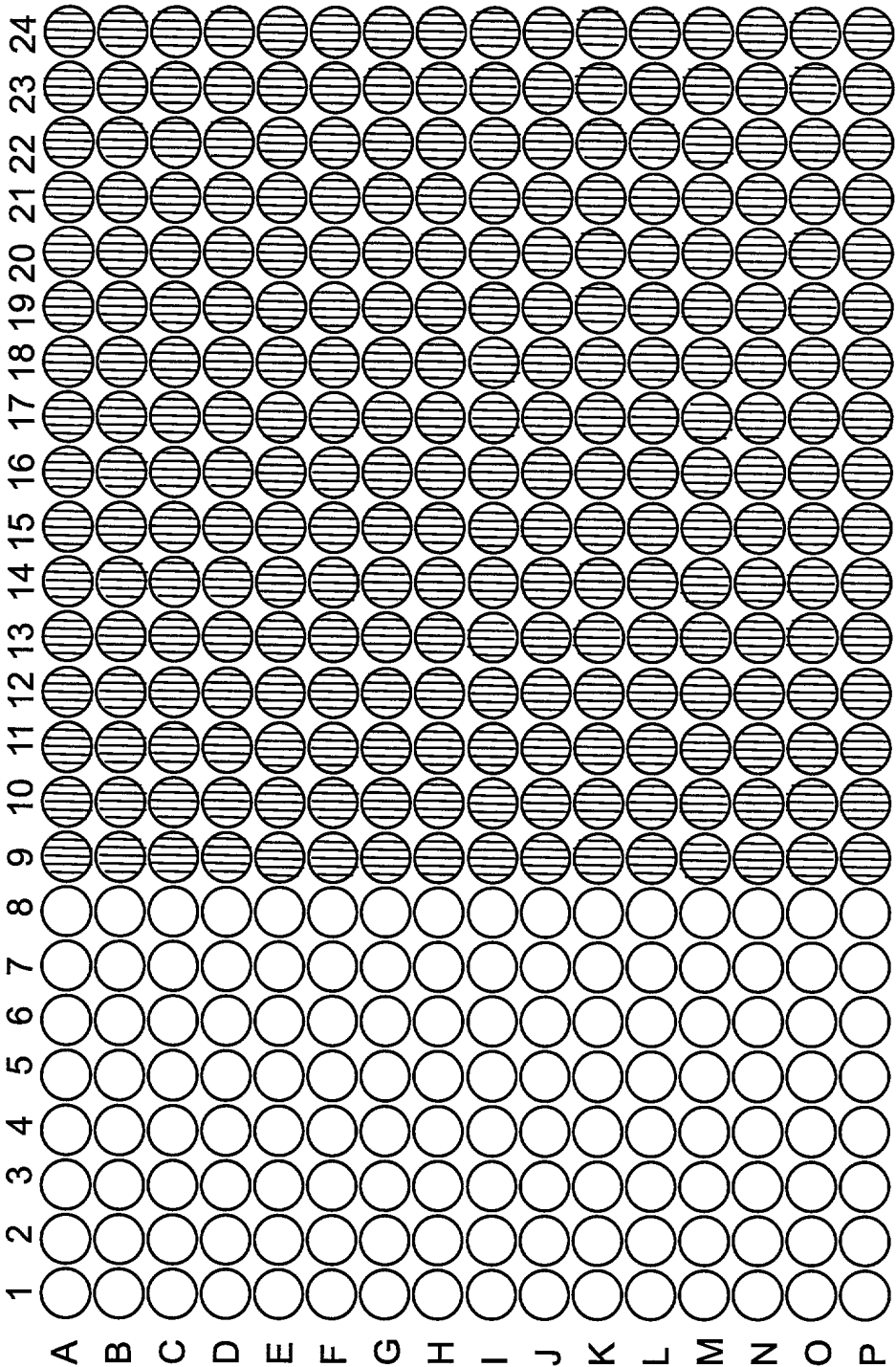


Fig. 12E

Sipper Options [X]

General Directories **Sample Wells** Advanced

Dwell Pattern

Name: FullNoTrough.DP4_384

Row A: 9,10,11,12,17,18,19,20
 Row B: 9,10,11,12,17,18,19,20
 Row C: 9,10,11,12,17,18,19,20
 Row D: 9,10,11,12,17,18,19,20
 Row I: 9,10,11,12,17,18,19,20
 Row J: 9,10,11,12,17,18,19,20
 Row K: 9,10,11,12,17,18,19,20
 Row L: 9,10,11,12,17,18,19,20

New
 Load
 Save As

Fig. 12F

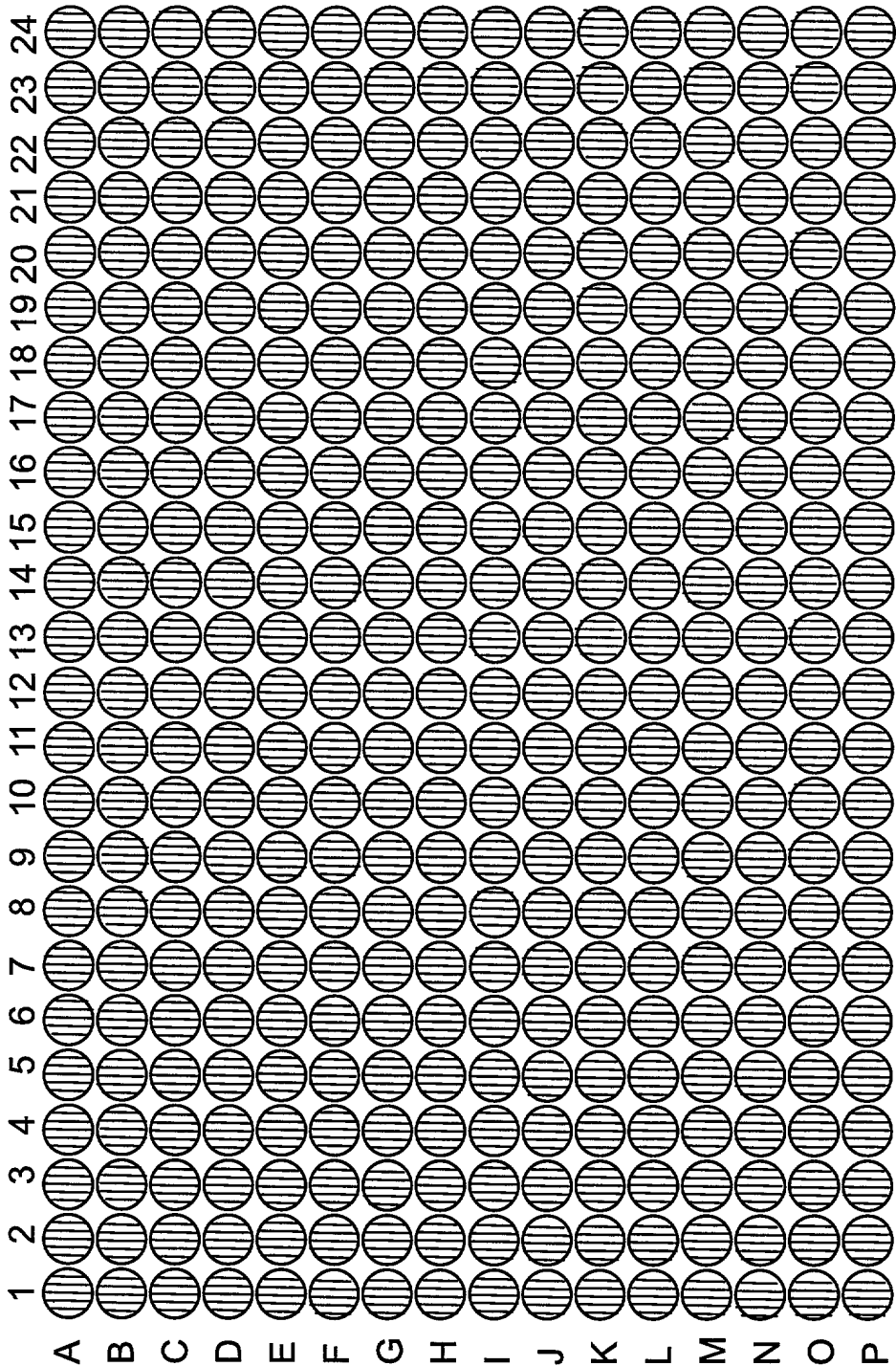


Fig. 12G

100T2T-463T200T

The image shows a screenshot of a software dialog box titled "Sipper Options". It has four tabs: "General", "Directories", "Sample Wells" (which is selected), and "Advanced". The "Sample Wells" tab contains a section titled "Dwell Pattern". Within this section, there is a text field labeled "Name:" containing the text "FullTrough.DP4_384". To the right of this field are three buttons: "New", "Load", and "Save As". Below the name field is a list of rows, each followed by a sequence of numbers: "Row A: 1,2,3,4,9,10,11,12,17,18,19,20", "Row B: 1,2,3,4,9,10,11,12,17,18,19,20", "Row C: 1,2,3,4,9,10,11,12,17,18,19,20", "Row D: 1,2,3,4,9,10,11,12,17,18,19,20", "Row I: 1,2,3,4,9,10,11,12,17,18,19,20", "Row J: 1,2,3,4,9,10,11,12,17,18,19,20", "Row K: 1,2,3,4,9,10,11,12,17,18,19,20", and "Row L: 1,2,3,4,9,10,11,12,17,18,19,20".

Sipper Options [X]

General Directories **Sample Wells** Advanced

Dwell Pattern

Name: FullTrough.DP4_384 [New] [Load] [Save As]

Row A: 1,2,3,4,9,10,11,12,17,18,19,20
Row B: 1,2,3,4,9,10,11,12,17,18,19,20
Row C: 1,2,3,4,9,10,11,12,17,18,19,20
Row D: 1,2,3,4,9,10,11,12,17,18,19,20
Row I: 1,2,3,4,9,10,11,12,17,18,19,20
Row J: 1,2,3,4,9,10,11,12,17,18,19,20
Row K: 1,2,3,4,9,10,11,12,17,18,19,20
Row L: 1,2,3,4,9,10,11,12,17,18,19,20

Fig. 12H

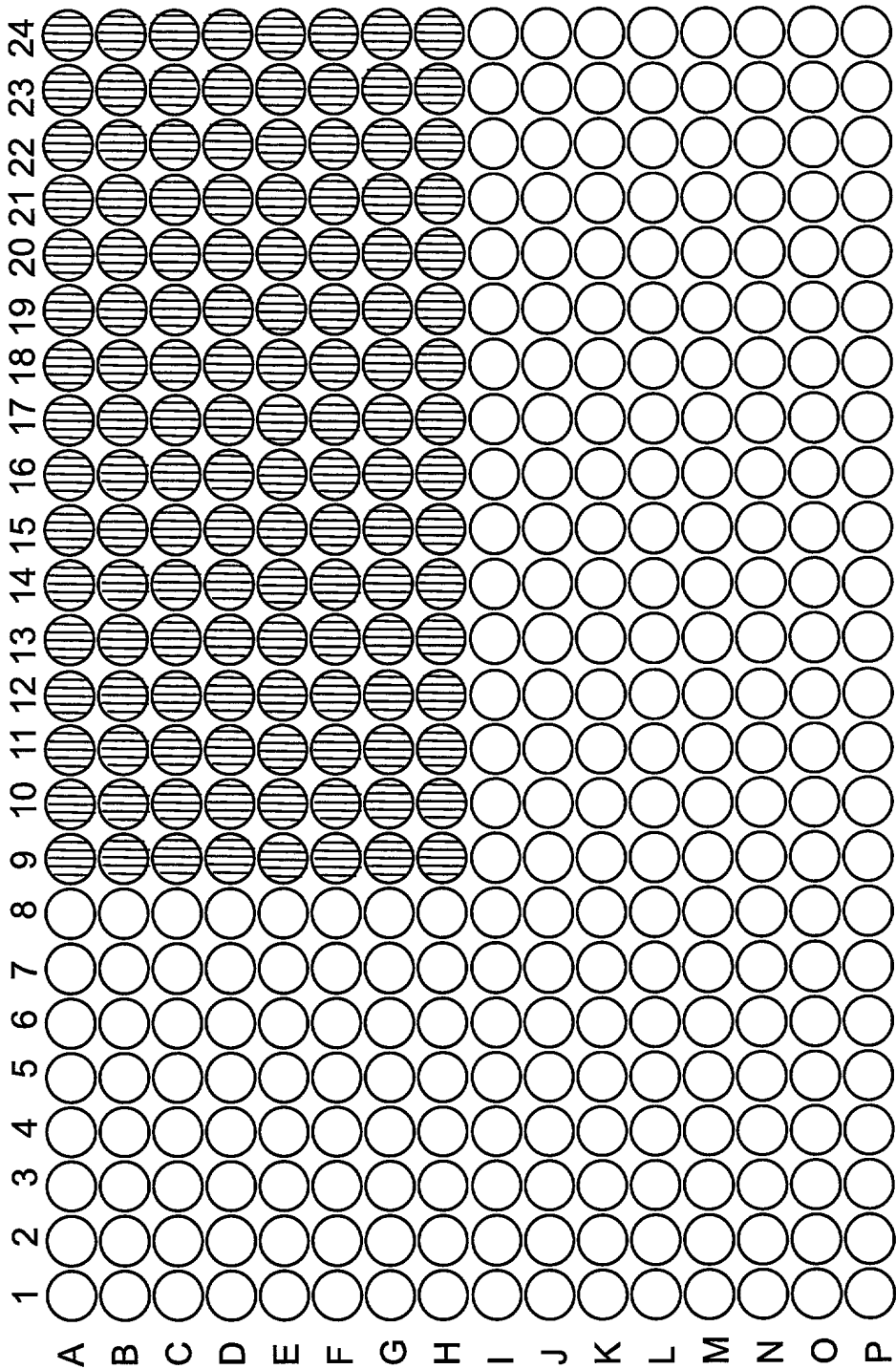


Fig. 12I

Sipper Options [X]

General Directories **Sample Wells** Advanced

Dwell Pattern

Name:

Row A: 9,10,11,12,17,18,19,20
Row B: 9,10,11,12,17,18,19,20
Row C: 9,10,11,12,17,18,19,20
Row D: 9,10,11,12,17,18,19,20

New
Load
Save As

Fig. 12J

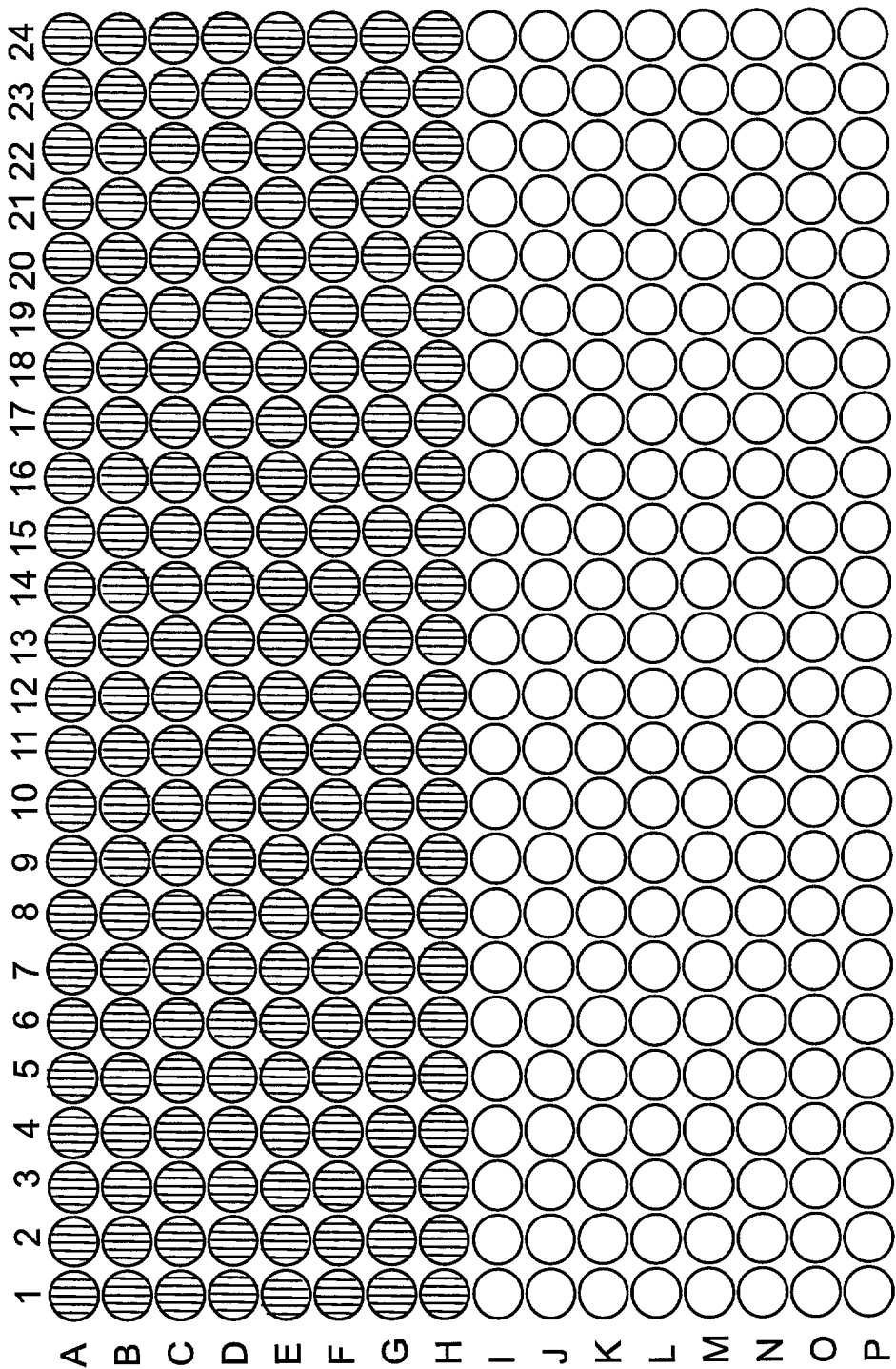


Fig. 12K

Sipper Options [X]

General Directories **Sample Wells** Advanced

Dwell Pattern

Name:

Row A: 1,2,3,4,9,10,11,12,17,18,19,20
Row B: 1,2,3,4,9,10,11,12,17,18,19,20
Row C: 1,2,3,4,9,10,11,12,17,18,19,20
Row D: 1,2,3,4,9,10,11,12,17,18,19,20

New
Load
Save As

Fig. 12L

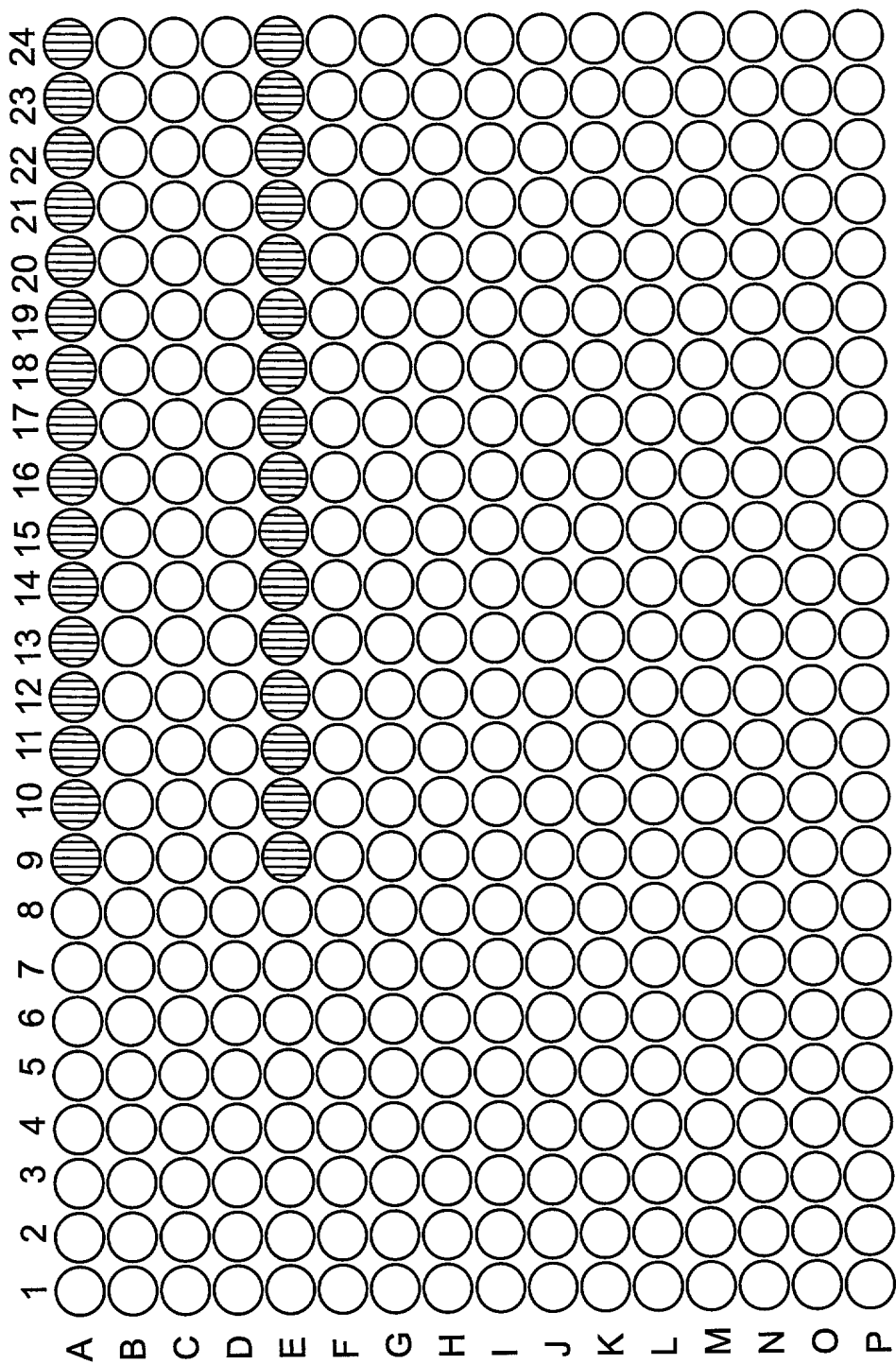


Fig. 12M

Sipper Options [X]

General Directories **Sample Wells** Advanced

Dwell Pattern

Name:

Row A: 9,10,11,12,17,18,19,20

Fig. 12N

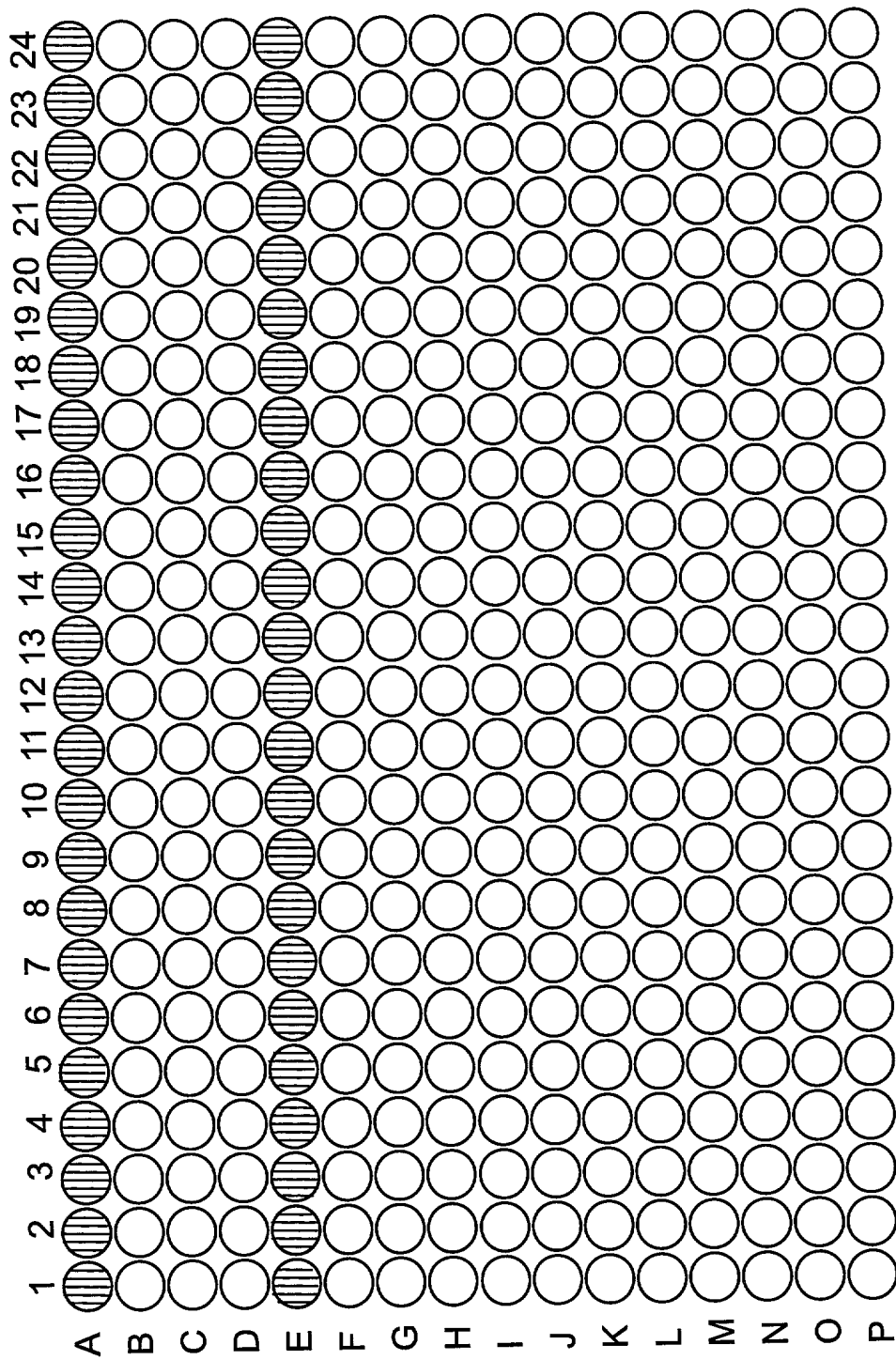


Fig. 120

Sipper Options [X]

General Directories **Sample Wells** Advanced

Dwell Pattern

Name:

Row A:

Fig. 12P

Downloaded from www.scribd.com

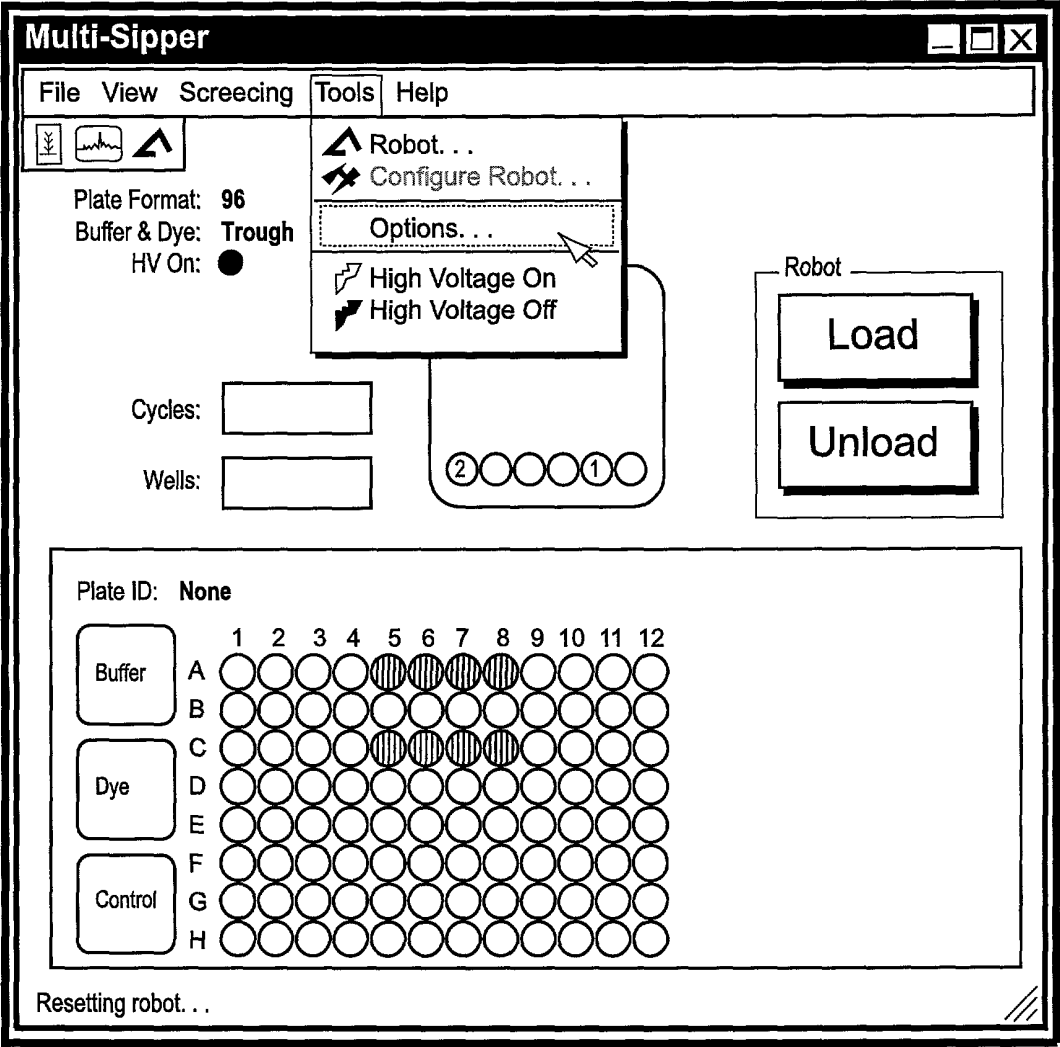


Fig. 13A

Sipper Options [X]

Directories | Sample Wells | **Robot Settings**

☒ Pickup plate before starting robot motion

Plate format:

Chip Format: ▼

Fig. 13B

Sipper Options

Directories

Sample Wells

Robot Settings

☒ Use 1 rough for Butter and Dye Wells

Dwell Pattern

Name: FullTrough.DP4_384

New

Row A: 1,2,3,4,9,10,11,12,17,18,19,20

Row B: 1,2,3,4,9,10,11,12,17,18,19,20

Row C: 1,2,3,4,9,10,11,12,17,18,19,20

Row D: 1,2,3,4,9,10,11,12,17,18,19,20

Row I: 1,2,3,4,9,10,11,12,17,18,19,20

Row J: 1,2,3,4,9,10,11,12,17,18,19,20

Row K: 1,2,3,4,9,10,11,12,17,18,19,20

Row L: 1,2,3,4,9,10,11,12,17,18,19,20

Load

Save As

☒ Control Wells On Plate

Sipper 3: A1

Sipper 4: A3

Sipper 2: C1

Sipper 1: C3

OK

Cancel

Fig. 13C

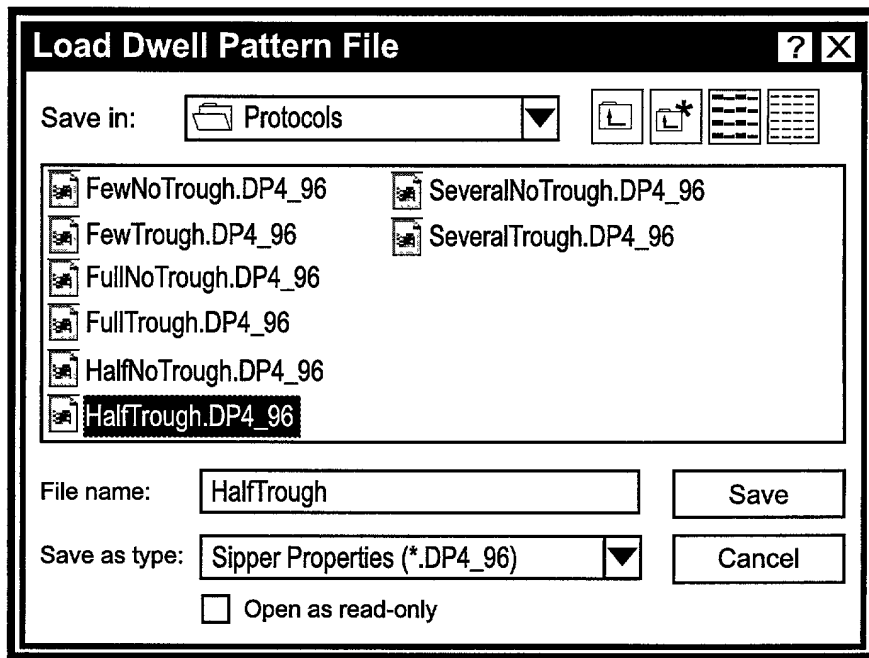


Fig. 13D

Sipper Options [X]

Directories **Sample Wells** Robot Settings

Dwell Pattern

Name:

Row A: 1,2,5,6,9,10
Row B: 1,2,5,6,9,10

Control Wells

☐ Control Wells On Plate

Sipper 3: Sipper 4:

Sipper 2: Sipper 1:

Fig. 13E

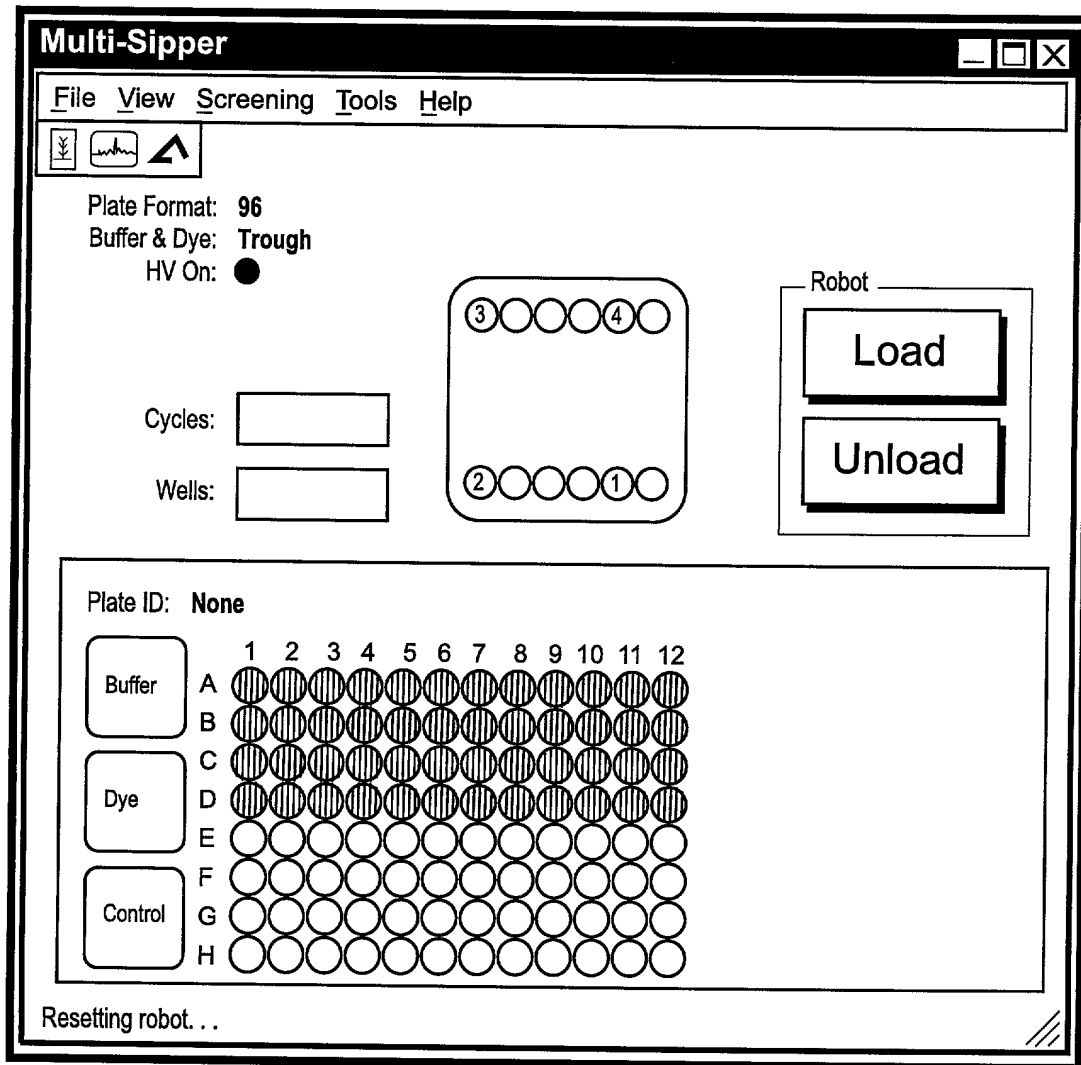


Fig. 13F

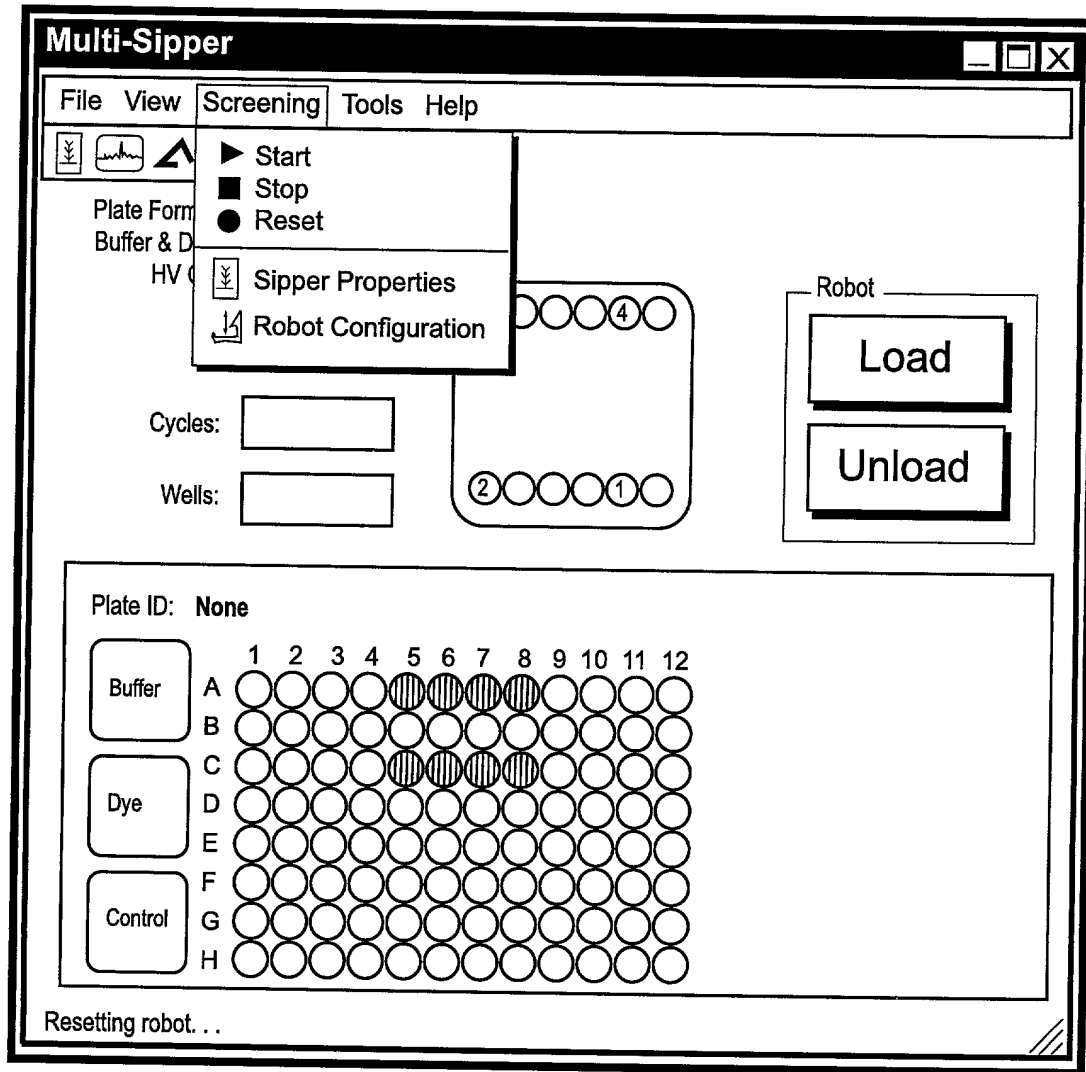


Fig. 14A

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Sipper Property - Default Sipper Properties [X]

Initial Delay secs

Buffer secs

Sample secs

☒ Dye Well

Dye secs

Injections pre/post plate

☐ Single dye injection between rows

☒ Pressure Driven Flow

Pressure PSI

Base Pressure PSI

☒ Control Well On Trough

Pre Control Buffer secs

Control secs

Post Control Buffer secs

Sample Well Cycles

Final Delay secs

New

Load

Save As

OK

Cancel

Fig. 14B

Downloaded from www.5050.com

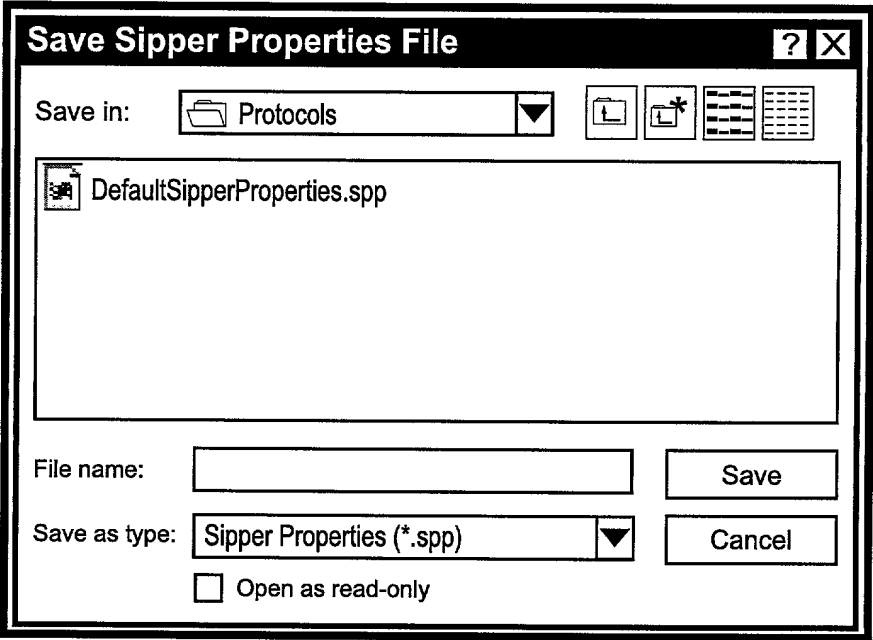


Fig. 14C